BRUHAT BANGALORE MAHANAGARA PALIKE

BYTARAYANPURA DIVISION

Name of Work:

Providing Cement Concrete Road and Improvements to Roads and Drains at bharath Nagar cross roads near baloon factory in ward no 16 byatarayanapura sub duvision

1ST& FINAL BILL

DETAILED-MEASUREMENT

TEJUS CONSULTANTS

CONSULTING ENGINEERS AND DESIGNERS

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Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Name of Agency :- M/S Sathya constructions.

Bill No :- 1st and Final Bill

Name Of work : - Improvements to Roads and Drains at bharath Nagar cross roads near baloon factory in ward no 06 byatarayanapura sub duvision

Detailed Measurement

BOQ Item No	Description / Chainage	Units	Nos	L(m)	B1	B2	Avg width	D(m)	Quantity	Rate	Amount
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)										
		cum		Qty as per premeasurement It No.1 P.No 1					94.68	201.67	19093.107
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)										
		Sqm		Qty as per premeasurement It No.2 P.No 2					500.85	86.92	43533.882
3	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)										
		sqm		Qty as per premeasurement It No.3 P.No 3					55.35	718.20	39752.370
10	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)										
		cum		Qty as per premeasurement It No.10 P.No 4					253.43	160.50	40675.515
	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)										
		cum		Qty as per premeasurement It No.4 P.No 5					253.43	5770.78	1462488.78

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Assistant Engineer 15/05/2020

Assistant Executive Engineer 15/5/2020

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BOQ Item No	Description / Chainage		Units	Nos	L(m)	B1	B2	Avg width	D(m)	Quantity	Rate	Amount
22	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed 2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M20 (at 300Kg per cum coarse aggregate @ 0.64cum and fine aggregate @ 0.43cum) (P.No.176, I.No.22.6.2 of PW,P&IWTD SR 2016-17)											
	Baloon Factory surrounding											
	cross road 1											
	0.00	15.00		1	15.00	4.60	4.80	4.70	0.10	7.05		
	15.00	30.00		1	15.00	4.80	4.90	4.85	0.10	7.28		
	30.00	37.40		1	7.40	4.90	4.90	4.90	0.10	3.63		
	37.40	52.40		1	15.00	4.90	4.70	4.80	0.10	7.20		
	52.40	67.40		1	15.00	4.70	4.70	4.70	0.10	7.05		
	67.40	82.40		1	15.00	4.70	4.50	4.60	0.10	6.90		
	82.40	97.40		1	15.00	4.50	4.50	4.50	0.10	6.75		
	97.40	112.40		1	15.00	4.50	4.20	4.35	0.10	6.53		
	112.40	133.00		1	20.60	4.30	4.30	4.30	0.10	8.86		
	cross road 2											
	0.00	15.00		1	15.00	5.10	5.00	5.05	0.10	7.58		
	15.00	30.00		1	15.00	5.00	5.00	5.00	0.10	7.50		
	30.00	45.00		1	15.00	5.00	4.70	4.85	0.10	7.28		
	45.00	60.00		1	15.00	4.70	4.10	4.40	0.10	6.60		
	60.00	75.00		1	15.00	4.10	4.20	4.15	0.10	6.23		
	75.00	90.00		1	15.00	4.20	4.10	4.15	0.10	6.23		
	90.00	105.00		1	15.00	4.10	4.60	4.35	0.10	6.53		
	105.00	120.00		1	15.00	4.60	4.00	4.30	0.10	6.45		
	120.00	136.00		1	16.00	4.00	3.30	3.65	0.10	5.84		
	cross road 3											
	0.00	15.00		1	15.00	5.20	4.70	4.95	0.10	7.43		
	15.00	30.00		1	15.00	4.70	4.60	4.65	0.10	6.98		
	30.00	45.00		1	15.00	4.60	4.90	4.75	0.10	7.13		
	45.00	60.00		1	15.00	4.90	4.90	4.90	0.10	7.35		
	60.00	75.00		1	15.00	4.90	4.80	4.85	0.10	7.28		
	75.00	90.00		1	15.00	4.80	4.70	4.75	0.10	7.13		
	90.00	99.00		1	9.00	4.70	4.70	4.70	0.10	4.23		

Consultant

Assistant Engineer 15/05/2020

Assistant Executive Engineer 15/5/2020

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BOQ Item No	Description / Chainage		Units	Nos	L(m)	B1	B2	Avg width	D(m)	Quantity	Rate	Amount
			Cum						Total	168.95	6708.56	1133411.212
23	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.177, I.No.22.7 of PW, P&IWTD SR 2016-17)											
	Baloon Factory surrounding											
	cross road 1											
	0.00	15.00		1	15.00	4.60	4.80	4.70		70.50		
	15.00	30.00		1	15.00	4.80	4.90	4.85		72.75		
	30.00	37.40		1	7.40	4.90	4.90	4.90		36.26		
	37.40	52.40		1	15.00	4.90	4.70	4.80		72.00		
	52.40	67.40		1	15.00	4.70	4.70	4.70		70.50		
	67.40	82.40		1	15.00	4.70	4.50	4.60		69.00		
	82.40	97.40		1	15.00	4.50	4.50	4.50		67.50		
	97.40	112.40		1	15.00	4.50	4.20	4.35		65.25		
	112.40	133.00		1	20.60	4.30	4.30	4.30		88.58		
	cross road 2											
	0.00	15.00		1	15.00	5.10	5.00	5.05		75.75		
	15.00	30.00		1	15.00	5.00	5.00	5.00		75.00		
	30.00	45.00		1	15.00	5.00	4.70	4.85		72.75		
	45.00	60.00		1	15.00	4.70	4.10	4.40		66.00		
	60.00	75.00		1	15.00	4.10	4.20	4.15		62.25		
	75.00	90.00		1	15.00	4.20	4.10	4.15		62.25		
	90.00	105.00		1	15.00	4.10	4.60	4.35		65.25		
	105.00	120.00		1	15.00	4.60	4.00	4.30		64.50		
	120.00	136.00		1	16.00	4.00	3.30	3.65		58.40		
	cross road 3											
	0.00	15.00		1	15.00	5.20	4.70	4.95		74.25		
	15.00	30.00		1	15.00	4.70	4.60	4.65		69.75		
	30.00	45.00		1	15.00	4.60	4.90	4.75		71.25		
	45.00	60.00		1	15.00	4.90	4.90	4.90		73.50		
	60.00	75.00		1	15.00	4.90	4.80	4.85		72.75		
	75.00	90.00		1	15.00	4.80	4.70	4.75		71.25		
	90.00	99.00		1	9.00	4.70	4.70	4.70		42.30		
			Cum						Total	1689.54	102.93	173904.352
										Total		2912859.214

Consultant

15/05/2020

Assistant Engineer

Assistant Executive Engineer

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